

L. Number	Hus	Search Text	DB	Time Stamp
-	0	boucle\$1 and (bi adj3 filament\$3) and (aramid\$1 or kevlar or nomex)	USPAT	2003/01/21 11:46
-	0	boucle\$1 and (bi adj3 filament\$3) and (aramid\$1 or kevlar or nomex)	USPAT; EPO; JPO; DERWENT	2003/01/07 12:12
-	156	boucle\$1	USPAT; EPO; JPO; DERWENT	2003/01/07 12:15
-	0	("4120914" "4198494" "5299602" "5305593" "5336734" "5356666" "5389326" "5468537") and boucle	USPAT	2003/01/09 17:02
-	46	("4120914" "4198494" "5299602" "5305593" "5336734" "5356666" "5389326" "5468537") and filament	USPAT	2003/01/21 13:57
-	33	("4120914" "4198494" "5299602" "5305593" "5336734" "5356666" "5389326" "5468537") and filament\$3 and (woven or weave)	USPAT	2003/01/07 13:23
-	17	"5323815"	USPAT	2003/01/07 13:16
-	6	marcanada	USPAT	2003/01/07 13:23
-	1	"4141082".PN.	USPAT	2003/01/07 13:27
-	1	"4287698".PN.	USPAT	2003/01/07 13:27
-	1	"4662006".PN.	USPAT	2003/01/07 13:32
-	1	"5131097".PN.	USPAT	2003/01/07 13:32
-	1	"5136723".PN.	USPAT	2003/01/07 13:32
-	1	"5189737".PN.	USPAT	2003/01/07 13:32
-	1	"5198280".PN.	USPAT	2003/01/07 13:32
-	1	"5202086".PN.	USPAT	2003/01/07 13:32
-	1	"5189737".PN.	USPAT	2003/01/07 13:33
-	1	"5202086".PN.	USPAT	2003/01/07 13:33
-	1	"5299602".PN.	USPAT	2003/01/07 13:33
-	74	4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537	USPAT	2003/01/08 17:29
-	6	("4120914" "4198494" "5299602" "5305593" "5336734" "5356666" "5389326" "5468537") and (bi adj jet) or boucle	USPAT	2003/01/08 17:39
-	92	(bi adj jet) or boucle) and (filament) and (aramid\$1 or kevlar or nomex) and (weave\$3 or woven\$3)	USPAT	2003/01/08 17:40
-	28	(bi adj jet) or boucle) and (multi filament) or (multifilament) or (bifilament) or (bi filament) and (aramid\$1 or kevlar or nomex) and (weave\$3 or	USPAT	2003/01/08 17:41

1	5397627.pn.	USPAT	2003/01/09 09:46
11	5397627"	USPAT	2003/01/09 09:46
0	5397627" and (MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide))	USPAT	2003/01/09 09:46
175	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide))	USPAT	2003/01/09 09:46
0	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and "5397627"	USPAT	2003/01/09 09:47
453	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (para adj aramid\$1) or (para-aramid\$1))	USPAT	2003/01/09 09:48
278	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1))	USPAT	2003/01/09 09:48
110	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1))	USPAT	2003/01/09 15:36
11	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and entangl\$4	USPAT	2003/01/09 09:49
0	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((multi-component\$1) or (multi adj component) or (bi-component\$1) or (bi adj component))	USPAT	2003/01/09 10:05
190	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1))	USPAT	2003/01/09 17:00
0	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((biadj component\$1) or (bi component\$1) or (multiadj component\$1) or (multi-component\$1))	USPAT	2003/01/09 15:38
76	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and entangl\$4	USPAT	2003/01/09 17:03

3	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537) )	USPAT	2003 01 15 10:40
1	4120914.pn.	USPAT	2003 01 09 17:05
1	4120914.pn.	USPAT	2003 01 10 09:39
0	B378760.PN.	USPAT	2003/01/10 08:58
0	B378760.PN.	USPAT	2003/01/10 08:58
1	3817941 .PN.	USPAT	2003/01/10 08:58
22	"4120914"	USPAT	2003/01/10 09:39
454	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (para adj aramid\$1) or (para-aramid\$1) )	USPAT	2003/01/15 10:34
1987	428/921	USPAT	2003/01/15 10:40
1663	(428/921).CCLS.	USPAT	2003/01/15 10:41
2	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((428/921).CCLS.)	USPAT	2003/01/15 10:50
76	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and filament	USPAT	2003/01/15 10:50
76	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and filament\$2	USPAT	2003/01 15 16:36
1	3767756 .PN.	USPAT	2003 01 15 10:59
1	3869429 .PN.	USPAT	2003 01 15 10:59
1	4120914 .PN.	USPAT	2003 01 15 10:59
1	4198494 .PN.	USPAT	2003 01 15 10:59
1	4228218 .PN.	USPAT	2003 01 15 10:59
1	4228218 .PN.	USPAT	2003 01 15 10:59

1	"4888091".PN.	USPAT	2003/01/15 11:00
42	(264/904).CCLS	USPAT	2003/01/15 16:36
49	((MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3	USPAT	2003/01/21 11:54
290	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3	USPAT	2003/01/16 09:14
216	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3 and yarn\$3	USPAT	2003/01/22 09:33
1	4159618.pn.	USPAT	2003/01/16 10:18
1	"2369876".PN.	USPAT	2003/01/16 10:11
1	"3843587".PN.	USPAT	2003/01/16 10:11
1	"3881977".PN.	USPAT	2003/01/16 10:11
1	"4056651".PN.	USPAT	2003/01/16 10:11
727	Nomex and Kevlar	USPAT	2003/01/16 10:18
224	Nomex and Kevlar and yarn and (filament\$2 or continuous)	USPAT	2003/01/16 14:14
40	Nomex same Kevlar same yarn\$2 same (filament\$2 or continuous)	USPAT	2003/01/16 10:19
43	Nomex same Kevlar same yarn\$2 same (filament\$2 or continuous)	USPAT; EPO; IPO; DERWENT	2003/01/16 13:59
38	4729151 4535516 4237187	USPAT; EPO; IPO; DERWENT	2003/01/16 13:51
7	aramid and (partially adj2 orient\$3 adj3 (fiber\$2 or filament\$3))	USPAT	2003/01/16 13:54
16	"9104855" "9214608"	USPAT; EPO; IPO; DERWENT	2003/01/16 13:56
75	0207422 0310199 0624115	USPAT; EPO; IPO; DERWENT	2003/01/16 13:57

Page 28

192	(57/244).CCLS.	USPAT	2003/01/16 14:38
3	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and ((57/244).CCLS.)	USPAT	2003/01/21 14:17
1	5397627.pn.	USPAT	2003/01/16 15:26
0	boucle\$1 and (aramid\$1 or kevlar or nomex)	USPAT	2003/01/21 11:46
0	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and boucle	USPAT	2003/01/21 14:25
8	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and entangl\$3	USPAT	2003/01/21 11:48
1	5399418.pn.	USPAT	2003/01/21 11:55
1	"4923741".PN.	USPAT	2003/01/21 11:54
1	5014755 .PN.	USPAT	2003/01/21 11:55
29	"5399418"	USPAT	2003/01/21 11:55
0	"5399418" and (MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 11:56
127	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 11:57
69	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 14:22

1	4120914.PN	USPAT	2003/01/21 13:41
51	(4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537 ) and (denier\$3 or tex\$3)	USPAT	2003/01/21 13:58
1	(4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537 ) and (denier\$3 or tex\$3) and (MPIA or (m adj3 aramid) or (m aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide) and (para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 14:03
22	4120914"	USPAT	2003/01/21 14:03
0	"B378760".PN.	USPAT	2003/01/21 14:03
0	"B378760".PN.	USPAT	2003/01/21 14:03
1	3817941".PN.	USPAT	2003/01/21 14:03
1	3869429".PN.	USPAT	2003/01/21 14:03
1	3869430".PN.	USPAT	2003/01/21 14:03
4	"6146759"	USPAT	2003/01/21 14:18
1	"3366001".PN.	USPAT	2003/01/21 14:20
1	"3439491".PN.	USPAT	2003/01/21 14:21
1	"3729920".PN.	USPAT	2003/01/21 14:21
1	3828544".PN.	USPAT	2003/01/21 14:21
81279	"1593" "048"	EPO, JPO; DERWENT	2003/01/21 14:24
	57-59585		
	58-100323		
	60-107608		
	61-261330		
	1-111011		

0	57-59585	EPO; JPO; DERWENT	2003-01-21 14:24
	58-100323		
	60-107608		
	61-261330		
	1-141041		

12	5759585	EPO; JPO; DERWENT	2003-01-21 14:24
	58100323		
	60107608		
	61261330		
	1141041		

14	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	EPO; JPO; DERWENT	2003/01/21 14:29
----	---	----------------------	---------------------

127	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 14:29
-----	---	-------	---------------------

60	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and (denier\$3 or decitex\$3 or dtex\$3 or (linear adj2 densu\$3))	USPAT	2003/01/21 15:18
----	--	-------	---------------------

7	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same (filament\$3 same (tex\$3 or denier\$3 or dtex\$3 or decitex\$3 or (linear adj2 densu\$3))	USPAT	2003-01-21 15:21
---	---	-------	---------------------

38	(MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3	USPAT	2003-01-21 15:32
----	---	-------	---------------------





3	6287686	USPAT	2003/01/22 09:28
1	4198494".PN.	USPAT	2003/01/22 09:21
1	4282283".PN.	USPAT	2003/01/22 09:21
1	4941884".PN.	USPAT	2003/01/22 09:22
1	5534325".PN.	USPAT	2003/01/22 09:22
1	5534325".PN.	USPAT	2003/01/22 09:22
1	5560990".PN.	USPAT	2003/01/22 09:22
1	5824614".PN.	USPAT	2003/01/22 09:23
1	5849648".PN.	USPAT	2003/01/22 09:23
1	5849648".PN.	USPAT	2003/01/22 09:23
1	5853880".PN.	USPAT	2003/01/22 09:23
1	5888652".PN.	USPAT	2003/01/22 09:23
1	5918453".PN.	USPAT	2003/01/22 09:27
1	5918453".PN.	USPAT	2003/01/22 09:28
1	6102128".PN.	USPAT	2003/01/22 09:28
1	5918453".PN.	USPAT	2003/01/22 09:28
1	6102128".PN.	USPAT	2003/01/22 09:28
0	2001/0034897".PN.	USPAT	2003/01/22 09:28
8	19617634"	USPAT	2003/01/22 09:29
	2104929"		
	2253194"		
21	19617634"	USPAT; EPO; JPO; DERWENT	2003/01/22 09:30
	2104929"		
	2253194"		
1	kevlar and nomex	JPO	2003/01/22 09:30
1	p-aramid and m-aramid	JPO	2003/01/22 09:30
629	(Named as MPDA in the abstract in the abstract)	USPAT	

374	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and yarn\$3 and (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003/01/22 09:35
64	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same yarn\$3 same (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003/01/22 09:41
181	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003/01/22 09:42